



1631

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# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

<b>Application Number</b>	09/506,717-Conf. #9161	
	<b>Filing Date</b>	February 18, 2000
	<b>First Named Inventor</b>	Harold E. Helson
	<b>Art Unit</b>	1631
	<b>Examiner Name</b>	E. S. Dejong
<b>Attorney Docket Number</b>	0103544.00135US2	
<b>Total Number of Pages in This Submission</b>		

## ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
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## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

<b>Firm Name</b>	WILMER CUTLER PICKERING HALE AND DORR LLP		
<b>Signature</b>			
<b>Printed name</b>	Donald R. Steinberg		
<b>Date</b>	September 19, 2006	<b>Reg. No.</b>	37,241

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as First Class Mail, in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: September 19, 2006

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(Anthony W. Sutton)

Docket No.: 0103544.00135US2  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**



Applicant:	Harold E. Helson	Confirmation No.:	9161
Application No.:	09/506,717	Art Unit:	1631
Filed:	February 18, 2000	Examiner:	E. S. Dejong
Title:	DERIVING FIXED BOND INFORMATION		

Mail Stop Amendment  
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P.O. Box 1450  
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**INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicants bring to the attention of the Examiner the documents listed on the attached Form SB/08.

This Information Disclosure Statement is being filed prior to the mailing date of a first Office Action on the merits. No fee is required.

Applicants request that the Examiner initial and return a copy of the enclosed Form PTO SB/08 with the next communication.

Application No.: 09/506,717

Docket No.: 0103544.00135US2

Respectfully submitted,

Dated: September 19, 2006

A handwritten signature in black ink, appearing to read 'D. Steinberg', written over a horizontal line.

Donald R. Steinberg

Registration No.: 37,241

Attorney for Applicant(s)

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		Examiner Name	E. S. Dejong		
Sheet	1	of	6	Attorney Docket Number	0103544.00135US2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (# known)			
	AA*	US-4,473,890	09-25-1984	Araki et al.	
	AB*	US-4,747,059	05-24-1988	Hirayama et al.	
	AC*	US-4,811,217	03-07-1989	Tokizane et al.	
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	AE*	US-5,025,388	06-18-1991	Cramer, III et al.	
	AF*	US-5,157,736	10-20-1992	Boyer et al.	
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	AV*	US-5,841,678	11-24-1998	Hasenberg et al.	
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	AA1*	US-5,978,804	11-02-1999	Dietzman	
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Examiner Signature				Date Considered	



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				Art Unit	1631
				Examiner Name	E. S. Dejong
				Attorney Docket Number	0103544.00135US2
Sheet	2	of	6		

	AT1*	US-6,219,622	04-17-2001	Schmidt et al.	
	AU1*	US-6,226,620	05-01-2001	Oon et al.	
	AV1*	US-6,236,989	05-22-2001	Mandyam et al.	
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	AS2	US-US 2002/0049548	04-25-2002	Bunin	
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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>4</sup> (if known)				
	BA	WO-99/58474	11-18-1999	Swayze et al.		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	CA	Anonymous, "Databases Added to ChemWeb", <i>Information Today</i> , 2 pages, May, 1998		
	CB	BALASUBRAMANIAN, K.J., "Computer Perception of Molecular Symmetry", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 35, pp. 761-770, 1995		

Examiner Signature		Date Considered	
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				Art Unit	1631
				Examiner Name	E. S. Dejong
Sheet	3	of	6	Attorney Docket Number	0103544.00135US2

CC	BALDUCCI, R. et al., "Efficient Exact Solution of the Ring Perception Problem", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 34, pp. 822-831, 1994
CD	BARNARD, J.M., "Substructure Searching Methods: Old and New", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 33, pp. 532-538, 1993
CE	BARSAMIAM, S.T. et al., "Dielectric phenomenon of living matter", <i>IEEE Transactions of Dielectrics and Electrical Insulation</i> , Vol. 4, No. 5, pp. 629-643, Oct. 1997
CF	BAUER, J. et al., "IGOR and RAIN - The First Mathematically Based Multi-Purpose Problem-Solving Computer Programs for Chemistry and Their Use as Generators of Constitutional Formulas", <i>Informal Commun. Math. Chem. (MATCH)</i> , No. 27, pp. 31-47, 1992
CG	BAYADA, D.M. et al., "An Algorithm for the Multiple Common Subgraph Problem", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 32, pp. 680-685, 1992
CH	BENECKE, C. et al., "MOLGEN, a generator of connectivity isomers and stereoisomers for molecular structure elucidation", <i>Anal. Chim. Acta</i> , Vol. 314, pp. 141-147, 1995
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CJ	BLEY, K. et al., "Constitutional Formulae generated from Connectivity Information: the Program MDRAW", <i>J. Chem. Res. (S)</i> , p. 261 1991
CK	BRECHER, "The ChemFinder WebServer: Indexing Chemical Data on the Internet.", <i>CHIMIA</i> , Vol. 52, pp. 658-661, 1998
CL	Business Editors/Health & Medical Writers, "Janssen Selects MDL's ISIS, Relational Chemical Gateway as Informatics Foundation for High Throughout Discovery", 3 pages, 2 December 1998
CM	Cambridge Scientific Computing, Inc., "Chem3D the Molecular Modeling System", pp. 1-337, 1990
CN	CambridgeSoft Solutions Products Overview, 28 pages describing their product lines
CO	CARHART, R.E., "A Model-Based Approach to the Teletype Printing of Chemical Structures", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 16, No. 2, pp. 82-88, 1976
CP	CASEY et al., "Optical recognition of chemical graphics", <i>Proceedings of the Second International Conference on Document Analysis and Recognition</i> , pp. 627-631, 20-22 October 1993
CQ	CASH, "A Simple Means of Computing the Kekule Structure Count for Toroidal Polyhex Fullerenes", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 38, No. 1, pp. 58-61, 1998
CR	ChemDraw: Chemical Structure Drawing Standard (Publ. CambridgeSoft Corp.), pp. 68-69
CS	ChemDraw Chemical Structure Drawing Standard, <i>User's Guide</i> , CS ChemDraw 4.5 for Windows and Macintosh, CambridgeSoft Corporation, 1986-1997
CT	ChemDraw Chemical Structure Drawing Standard, <i>User's Guide</i> , CS Chem3D 4.0 for Windows and Macintosh, CambridgeSoft Corporation, 1986-1997
CU	ChemDraw Chemical Structure Drawing Standard, <i>User's Guide</i> , CS ChemDraw Pro Version 4.0 for Microsoft Windows and Apple Macintosh, CambridgeSoft Corporation, 1986-1996
CV	ChemDraw and Chem3D version history, 8 pages of version history dating back to 1985
CW	Cheminovation Software, "Chemistry 4-D Draw", <i>User's Guide</i> , pp. 1-61, 1997
CX	Chem3D Molecular Modeling and Analysis, <i>User's Guide</i> , CS Chem 3D 4.0 for Windows and Macintosh, CambridgeSoft Corporation, 1986-1997
CY	Chem3D The Molecular Modeling System Version 3.0, Cambridge Scientific Computing, Inc., 1986-1990
CZ	COOKE-FOX et al., "Computer Translation of IUPAC Systematic Organic Chemical Nomenclature. 1.Introduction and Background to a Grammar-Based Approach", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 29, pp. 101-105, 1989
CA1	COOKE-FOX et al., "Computer Translation of of IUPAC Systematic Organic Chemical Nomenclature.2.Development of a Formal Grammar", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 29, pp.

Examiner Signature		Date Considered	
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				Examiner Name	E. S. Dejong
				Attorney Docket Number	0103544.00135US2
Sheet	4	of	6		

		106-112, 1989	
CB1	COOKE-FOX et al., "Computer Translation of IUPAC Systematic Organic Chemical Nomenclature.3.Syntax Analysis and Semantic Processing", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 29, pp. 112-118, 1989		
CC1	COOKE-FOX et al., "Computer Translation of IUPAC Systematic Organic Chemical Nomenclature.4.Concise Connection Tables to Structure Diagrams", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 30, pp. 122-127, 1990		
CD1	COOKE-FOX et al., "Computer Translation of IUPAC SYstematic Organic Chemical Nomenclature.5.Steroid Nomenclature", <i>J. Chem. Inf. Comput. Sc.</i> , Vol. 30, pp. 128-132, 1990		
CE1	COOKE-FOX et al., "From names to diagrams - by computer", <i>Chemistry in Britain</i> , pp. 467-471, 1985		
CF1	CRC Handbook of Chemistry and Physics, Student Edition, 76th Edition, Section 2, pp. 2-22 through 2-26, 1996-1996		
CG1	CS ChemDraw for Apple Macintosh, <i>Quick Reference</i> , CambridgeSoft Corp., 1986-1996		
CH1	CS ChemFinder Searching and Information Integration, <i>User's Guide</i> , CS ChemFinder Pro and CS ChemFinder, Version 2.0 for Apple Macintosh, CambridgeSoft Corporation, 1991-1995		
CI1	CSC ChemDraw Chemical Structure Drawing Standard, <i>User's Guide</i> , CSC ChemDraw and CSC ChemDraw Plus Version 3.0 for Apple Macintosh, CambridgeSoft Corporation, 1986-1996		
CJ1	CSC Chemical Finder Chemical Information Management, <i>User's Guide</i> , Version 1.0 for Apple Macintosh, Cambridge Scientific Computing, Inc., 1991-1992		
CK1	CSC Chem3D Molecular Modeling and Analysis, <i>Tutorial</i> , CSC Chem3D and CSC Chem 3D Plus, Version 3.1 for Apple Macintosh, Cambridge Scientific Computing, Inc., 1986-1993		
CL1	DALBY, J. et al., "Description of Several Chemical Structure File Formats Used by Computer Programs Developed at Molecular Design Limited", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 32, pp. 244-255, 1992		
CM1	DITTMAR, P.G. et al., "An Algorithmic Computer Graphics Program for Generating Chemical Structure Diagrams", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 17, No. 3, pp. 186-192, 1977		
CN1	DOWNS, G.M. et al., "Review of Ring Perception Algorithms for Chemical Graphs", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 29, pp. 172-187, 1989		
CO1	ERTL, P. et al., "WWW-Based Chemical Information System", <i>Journal of Molecular Structure (Theochem)</i> , Vol. 449, p. 113-129, 8 December 1997		
CP1	FAN et al., "Detection of constitutionally equivalent sites from a connection table", <i>J. Chem. Inf. Comput. Sci.</i> , VVol. 36, pp. 654-659, 1996		
CQ1	FIGUERAS, J. et al., "Automorphism and Equivalence Classes", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 32, pp. 153-157, 1992		
CR1	FIGUERAS, J., "Ring Perception Using Breadth-First Search", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 36, p. 986-991, 1996		
CS1	FREREJACQUE, M., "No. 108 - Condensation d'une molecule organique", <i>Bull. Soc. Chim. Fr., (Memoires)</i> , Vol. 5, pp. 1008-1011, 1939		
CT1	GLENDENING et al., "Natural Resonance Theory: I. General Formalism", <i>Journal of Computational Chemistry</i> , Vol. 19, No. 6, pp. 593-609, 30 April 1998		
CU1	GOTHE, S.A. et al., "Computer-Assisted Mechanistic Evaluation of Organic Reactions. 22. The Generation and Use of Three-Dimensional Structures", <i>J. Org. Chem.</i> , Vol. 58, pp. 5081-5094, 1993		
CV1	GRAOVAC et al., "Kekule Index for Valence Bond Structures of Conjugated Polycyclic Systems", <i>Journal of the American Chemical Society</i> , Vol. 95, No. 19, pp. 6267-6273, 1973		
CW1	HELSON, "Simulation of Carbene Chemistry and Other Problems in Computer-Assisted Organic Synthesis", <i>Thesis</i> , Purdue University, 1993		

Examiner Signature		Date Considered	
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Sheet	5	of	6	Attorney Docket Number	0103544.00135US2

	CX1	HELSON, "Structure Diagram Generation", <i>Reviews in Computational Chemistry</i> , Vol. 13, Ch. 6, pp. 313-398, 1999	
	CY1	HELSON et al., "Computer-Assisted Mechanistic Evaluation of Organic Reactions. 25. Structure Diagram Positioning", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 34, p. 962, 1993	
	CZ1	HU et al., "Computer perception of topological symmetry by all-paths algorithm", Abstract, <i>Chemometrics and Intelligent Laboratory Systems</i> , 45, pp. 317-322, January 1999	
	CA2	HYDE, E. et al., "Structure Display", <i>J. Chem. Doc.</i> , Vol. 8, No. 3., pp. 138-146, 1968	
	CB2	IHDE, A., "The Development of Modern Chemistry", The University of Wisconsin, Dover Publications, pp. 305-309, NY, 1984	
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				Filing Date	February 18, 2000
				First Named Inventor	Harold E. Helson
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				Examiner Name	E. S. Dejong
				Attorney Docket Number	0103544.00135US2
Sheet	6	of	6		

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